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Apr 21, 1983

DERWENT-ACC-NO: 1983-39389K

DERWENT-WEEK: 198317

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TITLE: Processing column packing with rectangular plates - has cut-out lugs bent to opposite sides of plate

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PRIORITY-DATA: 1981DE-3135709 (September 9, 1981)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 3135709 A	April 21, 1983		018	

INT-CL (IPC): B01D 3/14

ABSTRACTED-PUB-NO: DE 3135709A

BASIC-ABSTRACT:

Packing insert for a heat exchange or mass transfer column is to produce turbulence in a medium flowing parallel to the vertical axis of the column. The element comprises smooth, ribbed or perforated, rectangular plates, touching one another along their longer edges and joined by studs at the corners.

A system of ducts is distributed over the section in a regular geometrical pattern. Each plate has a number of pairs of cut-outs, where the material is bent to opposite sides of the plate. Pref., the bending lines of these cut-outs are mutually parallel and are at 45 deg. or other acute angle to the edge of the plate.

Used in various types of column, e.g. for absorption, extraction, distillation, droplet separation, gas purification etc. and for heat exchange. The arrangement provides a large effective area per unit of volume and offers low flow resistance and achieves uniform distribution of the liquid.

ABSTRACTED-PUB-NO: DE 3135709A

EQUIVALENT-ABSTRACTS:

DERWENT-CLASS: J01

CPI-CODES: J01-A02A; J01-C01; J01-E03; J01-G02; J08-B;